

Patent Abstracts of Japan

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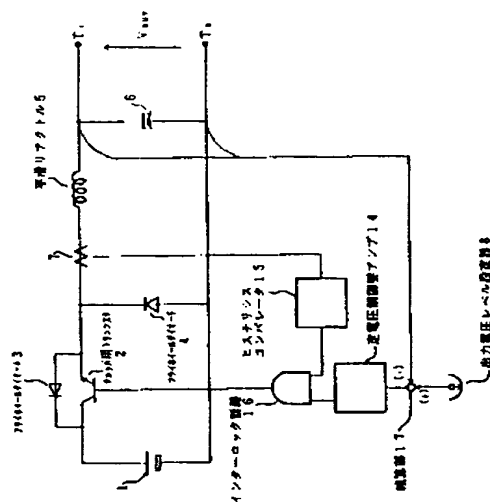
APPLICATION DATE : 31-08-88
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TITLE : DC CHOPPER-TYPE VARIABLE
CONSTANT-VOLTAGE POWER
SUPPLY



ABSTRACT : PURPOSE: To protect a chopper transistor from an overcurrent by stopping the operation of said chopper transistor, from when an electric current flowing through a smoothing reactor exceeds the ON-base value until when said current is lower than the OFF-base value.

CONSTITUTION: The input from a DC power supply 1 is converted into AC by a chopper transistor 2 and into DC by a smoothing reactor 5 and a smoothing capacitor 6 so as to be outputted. Said chopper transistor 2 is controlled by a constant-voltage control amplifier 14 so that the voltage of said smoothing capacitor 6 becomes constant. An electric current flowing through said smoothing reactor 5 is detected by a current sensor 7. When said detected value is more than a base value, a hysteresis comparator 15 outputs a command stopping the operation of said chopper transistor 2 via an interlock circuit 16 until said value is lower than another base value.

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